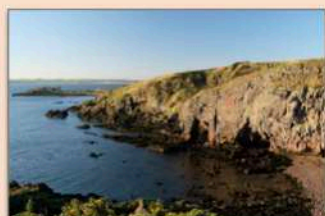
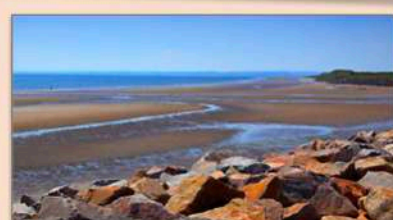
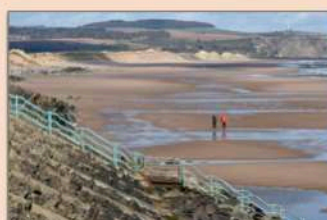


Fifth Report on the Great Angus Beach Clean

Including new issues and an update on recommendations arising out of the Great Angus Beach Clean September 2021.

Great Angus Beach Clean 17th - 19th Sept 2021

Play your part and do what you can to keep the Angus coast clean and litter free. Take a look at the aceangus.co.uk web-site for advice about getting involved and taking responsibility for your own safety. Use local bins. The ATV will be out to collect litter bags left above the high tide mark between Carnoustie and Arbroath.



Frithenheim Park



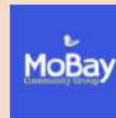
Wherever you are
Take 4 for the Shore
Make a Difference
Just do it!



Arbroath
Litter
Pickers
and Poo
Fighters



MARINE
CONSERVATION
SOCIETY



Supporting the Great British Beach Clean September 2021

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1. INTRODUCTION AND BACKGROUND

The fifth Great Angus Beach Clean was planned to coincide with the Great British Beach Clean which was held from the 17th to 26th September 2021. This report provides a summary of key outcomes and highlights a number of new issues. The report also provides an update on recommendations arising from the Great Angus Beach Clean held in May 2021.

The Great Angus Beach Clean is held twice a year and aims to bring together all sections of the community in a collaborative effort to remove as much litter as possible along the Angus Coast. The event also aims to prevent litter from reaching the sea by cleaning rivers, streams and inland areas as approximately 90% of marine litter originates from landward locations. In addition, the event raises awareness about both the sources and types of litter and attempts to identify ways of reducing the problem. The coastline of Angus is important not just to the people who live and visit here but also for biodiversity, tourism and the economy. Therefore the Great Angus Beach Clean is an opportunity for everybody regardless of age, ability or background to play their part and make a difference. People are asked to take personal responsibility for their own safety and either borrow a litter picker from one of the organised share stations or simply go out and 'take 4 for the shore'. For those litter picking between Carnoustie and Arbroath, heavy bags can be left above the high tide mark for East Haven's All-Terrain-Vehicle to collect. The approach taken is one of 'make it safe and make it fun' and safety guidance can be accessed from the Angus Clean Environments (ACE) web-site and those of other organisations such as Turning the Plastic Tide and Keep Scotland Beautiful.

1.1 Volume of Marine Litter

Table 1 highlights the volume of litter which has been removed during the five Great Angus Beach Cleans which have been held since 2019. It does not include the vast amount of marine litter which has been picked up by individuals and groups who undertake beach cleans on a regular basis throughout the year.

Table 1.

Great Angus Beach Clean May 2019	3000 kgs
Great Angus Beach Clean Sept 2019	1225 kgs
Great Angus Beach Clean Sept 2020	714 kgs
Big Beach Clean February 2020 and mechanical removal of ghost fishing gear at Westhaven in April 2021	2100 kgs
Great Angus Beach Clean 28th May - June 12 2021	1303 kgs
Great Angus Beach Clean Sept 2021	1166kgs
TOTAL	9508 kgs

2. WHO TOOK PART AND WHERE?

More than 146 people of all ages and abilities took part in the event. Over 1.166 tonnes of marine litter was uplifted between Monifieth and Montrose. A full summary of what was collected in each area can be seen in Appendix 1.

This year we were very fortunate to receive funding from the Co-op which enabled the purchase of thirty litter pickers made by Waterhaul. The handles, trigger and jaw are made from 100% recycled polypropylene fishing gear. Not only were the litter pickers essential for the event but they also provided an opportunity for education and awareness raising.



Participants willingly took personal responsibility for their own safety. Some left heavy bags for the ATV to collect along the shore between Carnoustie and Arbroath and others brought their refuse bags back to the share stations. The 138 people who we know were involved are those who took part in the various organised cleans. It is likely many others simply went out and took '4 for the shore'.

Montrose

Mobay led on the beach clean in Montrose supported by members of Rotary. Volunteers had been out over the summer cleaning the beach regularly which had made a real difference to the appearance of the beach. Despite that, volunteers still managed to collect 62kgs of marine litter. A huge number of Cigarette Butts were noted along with the usual suspects of bottles, cans, fast food packaging and ghost fishing gear. The Northern Vaults kindly provided bacon rolls and hot drinks to volunteers.



Ferryden

Marine Life Angus led on the beach clean in Ferryden. They found the beach to be very clean and only uplifted 1.4kg of litter. This mainly comprised plastic, foam and items such as cartridges and small pieces of fishing gear.

Lunan Bay

The Rangers at Lunan Bay held two beach cleans over the Great ABC weekend. A total of 37.7kgs was collected across a 1000m stretch of beach. Disappointingly they uplifted 43 full bags of dog waste. It has been argued that dog walkers leaving bagged waste should be subject to two Fixed Penalty Notices (FPNs) of £80. The first one for not picking up after their dog and the second for littering plastic.

The unacceptable number of full bags certainly evidences a need for dog walkers to take more responsibility for protecting one of their favourite beaches from this hazard. Wet wipes were also a problem and 48 were found across the 1000m stretch of beach surveyed. Further information about litter items collected in Lunan Bay can be found in Appendix 2.



Victoria Park Arbroath

Lily Souter led on a litter pick along the beach from Victoria Park towards the South Street end of Arbroath. Lily was pleasantly surprised at how clean this stretch of beach was.

West Sands Arbroath

Two beach cleans took place along West Sands involving 13 volunteers.

Amongst the groups represented were; Arbroath MacDonalds, Arbroath Litter and Poo Fighters, Arbroath Rotary and Old and Abbey Church. A total of 49.5kgs was uplifted over two separate days. A large amount of plastic items were found to

be lodged between the gabion boulders. Cigarette butts were also found in large numbers and 363 were removed on the Saturday clean.



Photo: Michaela (Mysha Shisha)

Inchcape Park Arbroath

Crawford Paris from East Grampian Coastal Partnership, led on the beach clean with 18 Marine Species and Litter Champions from Ladyloan Primary School. Along with a representative from MCS they helped to launch the event on the beach across from their school at Inchcape Park. Ladyloan Primary school has been involved in the Great Angus Beach Clean since 2019. The children have also done a lot of work to remove litter from around their school environment and as a result prevent litter from escaping into the marine environment.



The children collected 10 bags of litter which weighed 40.5kgs. An analysis of the bag contents revealed a large range of items extending from bottles, cans and wet wipes to plastic fishing line and pieces of rope.

An abandoned tent was also removed from the location and this contained over 100 cigarette butts, 12 batteries and a variety of other waste. A full summary of what the children found can be seen in Appendix 3.

East Haven

The East Haven beach clean extended northwards up towards Elliot in one direction and south towards Westhaven in the other. Seventeen volunteers took part over the weekend. A total of 64.4kgs was uplifted and data from a 100m stretch uploaded to the Marine Conservation Society website.

Drivers from East Haven also drove the All-Terrain-Vehicle (ATV) picking up all the heavy items. The rocky coastline between Arbroath and Carnoustie is particularly affected by ghost fishing gear and almost 300kgs was collected over the weekend. A



summary of what was found can be seen in Appendix 4 and 5.



Right: ATV filled with Ghost Fishing Gear

Left
Angus Council Species
Champion for Marine Species
and Litter. Cllr Julie Bell.



Friockheim Park Volunteers

Friockheim Park Volunteers collected 30 bags of mixed waste during the Great Angus Beach Clean weekend. It is estimated that approximately 90% of marine litter originates from land. The efforts of Friockheim Park helps to highlight the fact that everyone has a role in preventing litter from finding its way via streams and rivers to the sea.

James Anderson one of their volunteers also assisted in supporting an ATV run. He also managed to obtain additional support by way of refreshments for groups from Asda which were much appreciated.



Carnoustie

Carnoustie Community Council hosted a litter station in the beach front car park opposite the railway station. Despite the fact that several beach cleans were held over the summer a total of 67kgs was uplifted. In addition to plastic bottles and food wrappers there was a great deal of fishing debris including lobster pots, netting, plastic cord and rope. Carnoustie is also badly affected by marine litter becoming lodged between gabion boulders.



Barry Buddon and Monifieth

In a massive effort led by Rotary, Monifieth Eco Force and Landmarc a staggering 622kgs was removed from Barry Buddon and Monifieth beach on Sunday 19th September. Thirty eight volunteers came out in support and represented people of all ages and included 'Surfers without Sewage', 'Turning the Plastic Tide' and ACE.

It should be noted that the beach at Barry Buddon has not been cleaned properly by volunteers since 2019 and this might account for the significant amount of waste uplifted. The amount was so great that it was not possible to count all the small items. We are however able to



report that 55 large bin bags contained items such as cans, bottles, sanitary items, cotton buds, small plastics, PPE and food packaging. Of concern, a further four bags contained tiny polystyrene balls which had been washed ashore in a large container. These are dangerous and deadly as they never escape from the marine environment and are swallowed by birds and fish. It was not clear what the source of this hazard could have been.

Of equal concern was the huge amount of ghost fishing gear and fly tipped items. These included vehicle tyres and 14 canisters of oil and other unknown substances. A full summary of what was collected at Barry Buddon and Monifieth can be found in Appendix 6.

Landmarc, the provider of support services to the MOD range at Barry provided invaluable assistance by transporting the waste uplifted from Barry Buddon beach to the seafront at Monifieth. Angus Council provided swift support to remove all the waste from the site within 24 hours.



3. NEW and RELATED ISSUES

3.1 Upstream on the Elliot Water

In early 2020, ACE sent a video and a report to SEPA about clothing and other waste which had been dumped in an area close to the Elliot to Arbirlot public footpath. The items appeared to have been thrown from caravans down a steep embankment and into the Eliot water. During the Great Angus Beach Clean in September 2021, Michaela, a volunteer asked if we would go and look at the area again as further fly-tipping of clothing had taken place. Michaela also disclosed that she and others had cleared a dozen bags of clothes from the same location in March 2021.

On arrival at a small dried up gulley which normally flows into the Elliot Water, a mass of clothing and other personal items could be seen. Scattered amongst them were beer cans, high energy drinks bottles and some food wrappers. The waste covered such an extensive area that it was only possible to retrieve six bags without further assistance. Angus Council was informed and asked to investigate as it was clearly a fly-tipping incident. An officer attended the next working day and from witness accounts began an investigation. Volunteers also supported the clean up effort and a further 12 bags were removed.

It was possible to link the dumping of clothing with the removal of clothes from the 'Cash for Kids' clothing bank in the nearby Asda car park. Cash for Kids would normally receive £300 for every full container of clothes. However, dozens of bags had been systematically removed by people in need of clothing. Bags were carried up the Elliot to Arbirlot footpath where clothes were then tipped out of bags and items selected for use. Anything unsuitable was simply discarded and left along with other waste to contaminate the site.



There are several important issues arising from this situation. Clearly a criminal offence has taken place; firstly in the removal of clothes from the Cash for Kids bank and secondly the fly-tipping of unwanted items and other waste in the woods. Those responsible could be issued with fixed penalty notices of £200. Potentially individuals could also face imprisonment or a fine of up to £40,000.

Importantly though, the welfare of individuals has to be considered. For example, what circumstances could have led them to remove clothes for their own use from a recycling clothing bank?

The investigatory officer from Angus Council has since provided advice to the business responsible for the caravans from where the waste is suspected to have originated, before being tipped down the embankment. This advice included ensuring that during the induction of seasonal workers they are made aware of proper waste disposal practices and the consequences of environmental crime.' It is estimated that that there may be around 4,000 seasonal workers in Angus every year and significant concerns about their welfare was raised with Police and statutory organisations in 2019. More work needs to be done to ensure that seasonal workers have access to information and support services if required. Along with local residents ACE will continue to monitor the site.



3.2 Chemical Contamination

Prior to the Great ABC weekend a recce was undertaken in the ATV to assess the general condition of the beach between East Haven and Arbroath. During this trip, Jack Reid, an East Haven volunteer, spotted changes within the gabion rocks which form part of the sea defence close to Elliot. We were shocked to find that tar was running out of the dunes and down through the rocks. On closer inspection we observed that black membrane laid below the gabion rocks had torn in several areas revealing contaminated waste.

The air was heavy with the odour of tar and further inspection of the beach revealed 10 large canisters which had escaped from the site.

It was quickly realised that this contamination was on the site of the Old Dowrie (Bitumen) works. This was a large industrial site in the early 20th century. According to a BBC report in 2009, historical maps show that as the site expanded, the beach was used as a refuse tip for waste materials. Ownership of the contaminated site was transferred to Angus Council in 1977.



It was clear on inspection that the rock barrier, which was doubled in length by Angus Council in 2009, had been eroded. Angus Council Officers came out the next working day to inspect the site and assess what can be done to make it safe and reduce the hazard. Officers are currently progressing designs and will procure the necessary works to restore and protect the area as soon as possible. They are hoping to complete works before the end of March 2022.

3.3 Dumping of Food Waste in Territorial Waters

Extensive work has been undertaken to establish whether the food waste washed up between Carnoustie and Elliot in May 2021 was connected to the Nato exercise, Operation Strike Warrior. This was a large exercise involving the Royal Navy, Royal Air Force, Royal Marines and British Army. Alongside forces from other countries including the US, Nato war ships were anchored approximately 10 miles off-shore from Carnoustie and East Haven during week beginning 10th May 2021 and troops were accommodated on board ships.

During week of 24th May 2021 large canisters of rancid food waste washed ashore along the coast between Carnoustie and Arbroath. Five were initially collected in Carnoustie and four in East Haven. By the 31st May 2021, 14 foul-smelling containers had been washed up containing food waste such as meat, vegetables and rice. In addition, wooden pallets and seven smaller metal canisters containing a hot roll yeast mix were washed up. A number of cabbages and fruit peelings were also picked up in East Haven. All the food waste was washed up along a 7km stretch of Angus coastline over the period of a week.

A total of ten sealed food canisters were washed ashore and two of them were still wrapped in a label from the producer, Mountain Maid. They were only packed on 12 January 2020 and contained a Hot Roll mix. This is a yeast based product which would enable bread rolls to be provided to people in an environment where it is difficult to obtain fresh bread supplies. Mountain Maid is a food production company based in North Carolina in the USA. They have a contract to supply the U.S. Defence Logistics Agency Troop Support.

The task of investigating the dumping of waste at sea has proved to be both challenging and frustrating. ACE was quickly able to establish that neither SEPA, Scottish Water nor Angus Council had any responsibility to investigate the incident. Further enquiries revealed that, on 17 May 2021, ships from US Exercise Ragnar Viking met up with ships participating in Strike Warrior and they exercised together. The ships could clearly be seen less than 10 miles off shore in territorial waters between Carnoustie and East Haven. The link between ships from US Exercise Ragnar Viking and tins of Mountain Maid amongst the waste washed ashore provided strong circumstantial evidence that the waste was at the very least carelessly if not illegally dumped by US naval ships.



In terms of legislation, we established that the Environmental Protection Act 1990 does not apply to the Royal Navy or visiting forces. There are, however, internationally recognised rules set by the International Maritime Organisation which governs pollution and the dumping of waste at sea. These are found in the 'Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter 1972' (MARPOL). There are 89 signatories to the convention, including the UK and the US. The rules are extensive and importantly, they state that nothing can be dumped in territorial waters (within 12 miles of land). ACE also discovered that the UK military have no powers to investigate foreign militaries.

ACE contacted the office of the International Maritime Organisation (IMO) in London. After some discussion and deliberation they directed ACE back to the Scottish Government as it was their view that Scottish Ministers were responsible for any investigation as it was assumed that they had issued a licence for the exercise. Disappointingly, it took the the Scottish Government over nine weeks to respond to ACE's enquiry. They disagreed with the IMO as they said that Marine Scotland had no remit for issuing a marine licence for warship exercises. The Minister for Environment, Biodiversity and Land Reform said that the Maritime and Coastguard Agency (MCA) was responsible for enforcing MARPOL regulations.

ACE immediately thereafter made contact with the Counter Pollution and Salvage section of the MCA. They subsequently sought advice from the Royal Navy's Marine Environmental Protection Advisor. It was assumed that this would be with a view to establishing contact with the US Navy as ACE had previously made the MCA aware that they are the only agency authorised to investigate a foreign military. However, this did not happen and the case appears to have been closed down by the MCA. As a result, ACE has been left to draw its own conclusions about why the MCA did not investigate the case and why they believe that a letter of reassurance from the Royal Navy should be accepted as an adequate alternative response (Appendix 7). It may well be that they are confused about MARPOL regulations as the MCA stated in writing that Royal Navy and Naval Auxiliaries are exempt from the MARPOL 'dumped waste at sea regulations'. ACE made the MCA aware that this information is not correct and that all vessels operating in territorial waters have to follow MARPOL regulations. The weather was mild and calm during week of 17th May and ships could seen operating 10 miles from land. Based on the amount of waste washed ashore it would seem highly likely that it was dumped in territorial waters illegally. Despite this, the MCA have not provided any further explanation or response.

This outcome of course leads one to question whether the MCA is adequately resourced and supported to carry out the role of investigator especially when it involves a foreign military. There was an absence of certainty in terms of which organisation should assume responsibility for investigation and also a sense that some organisations simply wanted to pass responsibility elsewhere because of the complexities. ACE fully accepts that military training is essential to ensure that the UK is ready to meet any future challenges. However, this should not provide an excuse to ignore wider societal and environmental responsibilities.

Finally, having established that all vessels operating in territorial waters are forbidden from dumping waste at sea many people will be shocked to realise that the Military are allowed to dump waste if the vessel is more than 12 nautical miles from the nearest land. The MARPOL regulations allow the military to dump almost everything but plastic in the sea. This includes, wood, steel, food waste, concrete and other bulky items.

ACE would therefore strongly urge the UK Government to prioritise ways in which to store and process waste on ships. These facilities could include innovative designs to compress waste items so that they can be brought ashore for recycling and or disposal.

ACE would also urge the Scottish Government to provide clarity on roles and responsibilities in terms of investigation and enforcement of MARPOL regulations.

ACKNOWLEDGEMENTS

The Great Angus Beach Clean could not take place without the hard work and commitment of so many individuals, groups, schools, organisations and businesses across the area. Angus is a beautiful place to live and visit and so many people are passionate about reducing litter and preventing it from escaping into the sea. For those who live near the coast and watch the relentless tide of marine waste washing in and out there is an increasing sense of urgency to do something about it and play a part in creating healthier Scottish seas and beaches.

Special thanks to the following

Sue Taylor, Mobay
Montrose Rotary
Kelly Ann Dempsey, Marine Life Angus
Owen Barron and Michell Spink, LBCP
Wendy Russell, Arbroath Litter and Poo Fighters
Michaela (Mysha)
Fay Forge, Old and Abbey Church
Arbroath Rotary
Ladyloan Primary school
Crawford Paris, East Grampian Coastal Partnership (Turning the Plastic Tide)
Kirsty Crawford, Marine Conservation Society
Lynne Fotheringham, East Haven
Cllr Julie Bell, Marine Species and Litter Champion
David Rorie, Carnoustie Community Council
James Anderson, Friockheim Park
Alex Graham, Monifieth Eco Force
Dennis Young, Monifieth Rotary

Drivers of the ATV

John Keen, Nicola Keen, Jack Reid, Andy Edward, Alasdair Murray, James Anderson,

Organisations and Businesses

Angus Council, Waste Management Services
Landmarc services, Barry Buddon
MacDonalds Arbroath
Northern Vaults, Montrose
Asda, Forfar
Coop, Carnoustie

**This report was produced by Angus Clean Environments (ACE)
November 2021**

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Appendix 1. Summary of Amounts Collected by Area - Sept 21

AREA	Date	Bags	Weight	Volunteers
Montrose	18/9/21		62	12
Ferryden	17/9/21	1	1.4	2
Lunan Bay	17/9/21	6	15.4	3
Lunan Bay	18/9/21	9	22.3	3
Victoria Park	17/9/21	1	2.5	1
West Sands	21/9/21		31	2
West Sands	18/9/21	8	17.5	11
Inchcape Park	17/9/21		40.5	25
East Haven	18/9/21	9	64.4	17
Friockheim	18/9/21	30		
Carnoustie	19/9/21		47	16
Barry Buddon and Monifieth	19/9/20	59	622	38
ATV Collections between Arbroath and Carnoustie	17-19th		240	8
Elliot Burn	18th-24th	18		8
TOTALS		141	1166	146

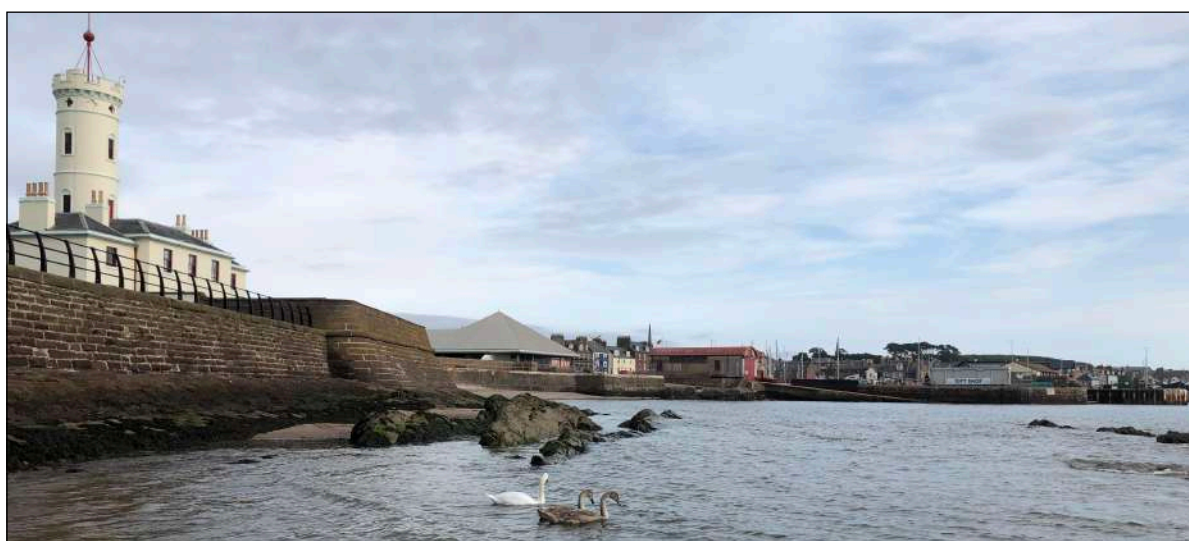


Appendix 2. Lunan Bay

LUNAN BAY	Friday 17th September.	Saturday 18th Sept.
Balloons	5	4
Children toys/balls	10	7
Clothing	7	13
Cloth/Rags	7	8
Coffee cups	8	9
Cigarette packets	27	3
Cigarette ends	21	25
Dog bags empty	8	2
Dog bags filled	18	25
Drinks cans	12	12
Disposable gloves	2	
Fish line (small plastic)	1	15
Fish Hooks	1	
Gun Cartridge	6	
Glass bottles	16	4
Food cans	6	8
Medication containers	3	3
Fishing Net pieces	8	20
Plastic Bottles	12	15
Plastic Pieces <50cm	38	33
Plastic Pieces >50cm	7	20
Polystyrene cartons	10	5
Rope small sections	10	35
Rope large	1	15
Rubber strips	4	20
Shoes sandals	11	2
Sanitary items		2
Wet Wipes		25
TOTAL WEIGHT	15.4kg	22.3kgs

Appendix 3. Ladyloan Primary School- Inchcape Park

Ladyloan Primary School - 18 children and 7 Adults	
1 Tent containing over 100 cigarette butts, 12 batteries, 14 cans, 5 bottles, 1 sleeping bag, 1 jumper, 1 air bed, 1 air pillow, general waste	
Wet wipes, face masks and gloves. Cotton buds.	
Plastic drinks bottles, glass bottles, drinks cans and bottle caps and lids.	
Plastic toys. One football	
Three tins of deodorant.	
One towel and one tea-towel	
Plastic cutlery, polystyrene food containers, cardboard food containers, coffee cups	
Fishing rope and plastic monofilament fishing line. Two blue gloves. Small sections of fishing net.	
Cigarette butts, cigarette packets, cigarette lighter	
Large plastic pieces and small plastic pieces	
Sweet wrappers and crisp packets	
Dog bags full and empty.	
One plastic tree support	
Two Ballloons	
Strips of cloth	
Lots of plastic wrapping. Cardboard.	
One trainer, one shoe, one sun hat. One garden glove.	
Rubber strips	
10 bags of waste	40.5kg



Appendix 4 - East Haven

East Haven = 9 Bags = 14.9kgs. Fishing gear = 49.5kgs. Total = 17 Volunteers			
MAIN ITEMS FOUND	NUMBER	MAIN ITEMS FOUND	NUMBER
Bouys/parts of	1	Chair	1
Balloons	1	Glass bottles	1
Creels	6	Food cans	2
Cigarette Lighter	1	Medication containers	1
Cotton buds	31	Fish Box	1
Cloth/Rags	22	Plastic Bottles	22
Lobster clips	3	Plastic Pieces <50cm	70
Large pieces of sponge/foam	17	Plastic Pieces >50cm	37
Cigarette ends	23	Polystyrene cartons	5
Dog bags empty	1	Rope small	72
Dog bags filled	1	Rope large	6
Drinks cans	8	Rubber strips	2
Disposable gloves	1	Shoes sandals	3
Fish line (small plastic)	62	Tyres	2
Fish Hooks	1	Wet Wipes	6
Plastic Plant labels	1	Masks	5
Large Industrial plastic bag	2	Paper wrappers/foil	11
Lump of Bitumen	1	Part of Porcelaine plate	1
Condom	2	Street cone	1
Oil Can	1	5l Plastic oil container	1

Appendix 5 -ATV Collection Carnoustie to Arbroath

ATV Collections - Arbroath to Carnoustie. 4 runs		
MAIN ITEMS FOUND	Number	Weight
Truck Tyre	1	80kgs
Medium Tyres	3	24kgs
Fish Boxes	4	8
Road Post	1	2
Large and medium Creels and parts of creels	20 damaged but intact. None of them marked	100kgs
Rubber Strapping	18	-
Chair	1	2
Tins of Mountain Maid	2	1
Full Oil Canisters	3	12
large empty plastic container	1	1
Plastic buckets	2	-
Rope +++++		12
Large sheets of plywood	2	2
TOTAL WEIGHT		240kgs



Appendix 6 Barry Buddon/Monifieth

BARRY BUDDON/MONIFIETH. 38 PEOPLE	
MAIN ITEMS FOUND	KGS
59 waste bags full of mixed waste materials (cans, bottles, sanitary items, cotton buds, small plastics, PPE, food packaging. At least 4 large bags of polystyrene balls). Dog bags both full and empty.	270
Traffic Cones x3	9
Old dustbin filled mainly with glass and bottlesbottles	12
3 Plastic crates	1.5
1 fish box	2
4 plastic buckets and 3m of large plastic piping	5
HGV Tyre x 2	100
5 Medium tyres	50
Large HGV rubber inner tube	1
Torn plastic sheeting	2
Shoe	
Fishing rod	
2 Plastic tree supports	
Children's toys	
Garden trog	1
5 Sheets Plywood	4.5
Car Bumper	2
Fishing nets	49
Creel markers - Bouys	
Several metres fishing rope >20mm and also many metres <12mm and monofilament fishing line.	
Random metal pieces and two tins of Mountain Maid food waste.	21
14 oil type Canisters some with unknown substances	60
Plastic sacking type material weighed down with sand and other debris	30
Large sheets of Plastic packaging	2
TOTAL WEIGHT	622

Appendix 7



Navy Command

**Navy Command Secretariat
Mailpoint 3.1
Leach Building
HMS EXCELLENT
Portsmouth
Hampshire
PO2 8BY**

Angus Clean Environments

10 November 2021

Thank you for your letter of 25 August 2021, copied to the Royal Navy Maritime Environmental Protection Adviser, regarding food waste washed up on Angus beaches during Exercise JOINT WARRIOR earlier this year. Your correspondence has been forwarded to the Navy Command Secretariat and I have been asked to respond.

Firstly, it is regrettable that this situation occurred so soon after important military activity and I would like to reassure you that the UK, our partners and allies take our environmental responsibilities very seriously. Please be reassured that strict rules are in place to mitigate against such events occurring.

It is the case, that all vessels operating in maritime waters are under obligation to follow the International Convention for the Prevention of Pollution from Ships (MARPOL) rules, which clearly state that no garbage should be discharged into the sea from vessels proceeding at a distance not less than 12 nautical miles from the nearest land. These are international rules that all maritime vessels, both military and civilian, will be aware of and operate in accordance with.

As I am sure you will appreciate, it is not feasible to ascertain whether the MARPOL rules are always adhered to by every vessel. It is possible, in this particular case, that weather conditions such as wind and wave swell resulted in garbage exceptionally washing up on shore. The MARPOL regulations relating to distance from shore are in place to avoid this risk, and ordinarily prevent garbage washing ashore, but maritime conditions are unpredictable and waste landing on shore cannot be completely mitigated against.

Finally, I hope that you will appreciate that military training with partners and allies is essential to ensure we are ready to meet any future challenge. Scotland's terrain and weather conditions make it an ideal area to conduct arduous training which is so very important for our collective defence.

I hope the above helps to clarify the situation.

Yours sincerely,

Navy Command Secretariat